

0570  
1018

J



# 3

OIPE

RAW SEQUENCE LISTING

DATE: 10/29/2002

PATENT APPLICATION: US/10/092,411A

TIME: 18:58:38

Input Set : N:\Cr4\10242002\J092411.raw

Output Set: N:\CRF4\10292002\J092411A.raw

1 <110> APPLICANT: Lynn Doucette-Stamm et al  
2 <120> TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
STAPHYLOCOCCUS

3 EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS

4 <130> FILE REFERENCE: 032796-101

5 <140> CURRENT APPLICATION NUMBER: US/10/092,411A

6 <141> CURRENT FILING DATE: 2002-03-07

7 <150> PRIOR APPLICATION NUMBER: US 09/134,001

8 <151> PRIOR FILING DATE: 1998-08-13

9 <150> PRIOR APPLICATION NUMBER: US 60/064,964

10 <151> PRIOR FILING DATE: 1997-11-08

11 <150> PRIOR APPLICATION NUMBER: US 60/055,779

12 <151> PRIOR FILING DATE: 1997-08-14

13 <160> NUMBER OF SEQ ID NOS: 5676

15 <210> SEQ ID NO: 1

16 <211> LENGTH: 204

17 <212> TYPE: DNA

18 <213> ORGANISM: Staphylococcus epidermidis

19 <400> SEQUENCE: 1

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21	aacaataaac acaatttcca tcataataaa ttattggcat gtgtatacac tcttttttca	120
22	ttgcttaatt atttatattc ccatttaggt ataataaata aacctatttt tctcaatttt	180
23	aactctttta gaattacgca ttga	204

25 <210> SEQ ID NO: 2

26 <211> LENGTH: 342

27 <212> TYPE: DNA

28 <213> ORGANISM: Staphylococcus epidermidis

29 <400> SEQUENCE: 2

30	tttttattaa acataaaaaga ggtgaaatca atgctagaat ttagaaatgt gtataaatct	60
31	tttaaaaaaa aagaaatatt atgtgatggt aattacaaat tatctgctgg agaaaagggt	120
32	ggtcttatag gttctaattg gtctggaaaa tcaacattaa tgaaacttat agctaaaact	180
33	caattaccat ctaaaggaaa tgttttattg aacaatatag atatacataa atctcacaat	240
34	atgataaaag atttttcttt catgatagga caaatatatt atcctgagtt aaatgcaaga	300
35	acaaatattg aaaattacct aaaaattaat aataagaatt ag	342

37 <210> SEQ ID NO: 3

38 <211> LENGTH: 381

39 <212> TYPE: DNA

40 <213> ORGANISM: Staphylococcus epidermidis

41 <400> SEQUENCE: 3

42	ataaacctat ttttctcaat tttaactctt ttagaattac gcattgatgt ttacttggca	60
43	aattttattaa ttattttagt cccatctatt acatcagcta tcttaattat ttacacttca	120
44	aaaatgaaat tatatttatg gttaaattga atttcaaacc taatttttta cattatttat	180
45	agtaaataata tcatgcatct agatggttat ctatcctata tcgagagggc gcaaatcaat	240
46	aatagtgata tagaaattaa aatatctcca aatatgcttg aattatctca gattatcttt	300

ENTERED

ppr 6-7

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Input Set : N:\Cr4\10242002\J092411.raw

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47      ttatttttttg tttattttaat acctcaaagtg attgtagttt ttattaaaca taaaagaggt      360
48      gaaatcaatg ctagaattta g      381
50 <210> SEQ ID NO: 4
51 <211> LENGTH: 198
52 <212> TYPE: DNA
53 <213> ORGANISM: Staphylococcus epidermidis
54 <220> FEATURE:
55 <221> NAME/KEY: unsure
56 <222> LOCATION: (38),(46),(66),(147),(161)
57 <223> OTHER INFORMATION: Identity of nucleotide at the above locations are unknown.
58 <400> SEQUENCE: 4
W--> 59      gcgcatcaac gcggtggcgc acggcgcggg gtggccantg tggtantggc cgcaacaggc      60
W--> 60      atccancaag ttgccgctgc cgcaaaggca aatggatgta ctcatgggta ccaccaatac      120
W--> 61      ttctcgaaat ttccgggtt ggcccaaaa cgggcattca nccaatccgg cacttgtttg      180
62      tattcaagca gatcgtag      198
64 <210> SEQ ID NO: 5
65 <211> LENGTH: 549
66 <212> TYPE: DNA
67 <213> ORGANISM: Staphylococcus epidermidis
68 <220> FEATURE:
69 <221> NAME/KEY: unsure
70 <222> LOCATION: (23),(37),(118),(138),(146),(189),(233)
71 <223> OTHER INFORMATION: Identity of nucleotide at the above locations are unknown.
72 <400> SEQUENCE: 5
W--> 73      atacaaacaa gtgccggatt ggntgaatgc ccgtttntgg gccaacccgg aaaatttcga      60
W--> 74      gaagtattgg tggtaaccat gagtacatcc atttgccttt gcggcagcgg caacttgntg      120
W--> 75      gatgcctgtt gcggccanta ccacantggc caccgcgcgc cgtgcgccac cgcgttgatg      180
W--> 76      cgctcacgnt acagcgccta tgtgtcgggg ctggtggatt atctggtggc cantacgcta      240
77      ccggcacaac agaacggcct cgaccgtgat gccatcgggg cctggagcgc gcaaagcacc      300
78      tggctcggcc tggaagtgga aagctccgag gtgtttggtg ggcagccgga acatgccttt      360
79      gtcactttta ccgcacgctg gcatgacagc accggcgaac acagccaccg cgaacagttg      420
80      tctttcgtac agaacgatgg gcgttggtac tttattgatc ctacggtgga ggtgaaggcc      480
81      gggcgtaatg atgcctgcct gtgcggcagt gggcagaagt tcaagaagtg ctgttccagt      540
82      tacctgtaa      549
84 <210> SEQ ID NO: 6
85 <211> LENGTH: 243
86 <212> TYPE: DNA
87 <213> ORGANISM: Staphylococcus epidermidis
88 <220> FEATURE:
89 <221> NAME/KEY: unsure
90 <222> LOCATION: (11),(92),(112),(120),(163),(207)
91 <223> OTHER INFORMATION: Identity of nucleotide at the above locations are unknown.
92 <400> SEQUENCE: 6
W--> 93      atgcccgttt ntgggccaac ccggaaaatt tcgagaagta ttggtggtaa ccatgagtag      60
W--> 94      atccatttgc ctttgcgga gcggcaactt gntggatgcc tgttgcggcc antaccacan      120
W--> 95      tggccacccc gcgcgctgcg ccaccgcgtt gatgcgtca cgntacagcg cctatgtgct      180
W--> 96      ggggctggtg gattatctgg tggccantac gctaccggca caacagaacg gcctcgaccg      240
97      tga      243
99 <210> SEQ ID NO: 7

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## RAW SEQUENCE LISTING

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Input Set : N:\Cr4\10242002\J092411.raw

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100 <211> LENGTH: 240
101 <212> TYPE: DNA
102 <213> ORGANISM: Staphylococcus epidermidis
103 <400> SEQUENCE: 7
104      tcgatccagg cgttgagcgg cgacgggtgtg gcgttgccatt acctgctgga ggcgtacaag      60
105      catttgaagg cgattgcctt ggcgggtgag gcgaagcagt tgctgcaggt gctcaagctg      120
106      gacgcggatg cggggttgat tgctggcggg gatgccaagg cgttgaaggc gtttattgcg      180
107      gcgattgccc agcatcgggt ctgggaacgg gagcctatgg ccaaggcggg tccggcttaa      240
109 <210> SEQ ID NO: 8
110 <211> LENGTH: 249
111 <212> TYPE: DNA
112 <213> ORGANISM: Staphylococcus epidermidis
113 <220> FEATURE:
114 <221> NAME/KEY: unsure
115 <222> LOCATION: (2),(147)
116 <223> OTHER INFORMATION: Identity of nucleotide at the above locations are unknown.
117 <400> SEQUENCE: 8
W--> 118      gntggccacc gccgaggacc aactcgccgc gttgcaggcc caatcgcccg acgacccggc      60
119      actcgagccg tatcagcgcc aactggccga ggctatttg cagcgcagcc agatcgctct      120
W--> 120      gcaaaaaggc gatgtcaacg ccgccgntac ggccttgagc cgcgcccggg cgttgatgcc      180
121      caaggctccc gcgctgaccg gtgggggtcaa caacgccatc gccacgcgc gcaaggccga      240
122      gctggataa
124 <210> SEQ ID NO: 9
125 <211> LENGTH: 735
126 <212> TYPE: DNA
127 <213> ORGANISM: Staphylococcus epidermidis
128 <220> FEATURE:
129 <221> NAME/KEY: unsure
130 <222> LOCATION: (341),(486),(501),(513),(709)
131 <223> OTHER INFORMATION: Identity of nucleotide at the above locations are unknown.
132 <400> SEQUENCE: 9
133      atcaatccgc ttcaccggtt tagtcagcag cgtgttcagc cacgggtaat cctcgggtgcg      60
134      cggcacctgg atgctcacat cacactggta attcaccaca tcggtggcga tggcatccag      120
135      ttgatggcgc aattcctgga tatccgtgag gttcagcgcc accgtggtgc tttcggcggt      180
136      ggggtcgatg accttggtcg gcggcttggc ttcggcagct ttcagggcgg cttcggcttt      240
137      atccagctcg gccttgcgcg cgtgggcgat ggcgttggtg accccaccgg tcagcgcggg      300
W--> 138      agccttgggc atcaacgccc gggcgcggt caaggccgta ncggcgggcg tgacatcgcc      360
139      tttttgcagg acgatctggc tgcgctgcaa ataggcctcg gccagttggc gctgatacgg      420
140      ctcgagtgcc gggtagtcgg gcgattgggc ctgcaacgcg gcgagttggt cctcggcggt      480
W--> 141      ggccanctca ctgctggcca ngttttgttc canctgtgca atggccacag cgcgcgcac      540
142      ccgcacctcc ggggccaacg ggcggggtgc ttttcaggc gccaccacc agggaaaatg      600
143      ccggcaggaa caaataaacg gaggttaacg gcttcattcc tgccactctc taattgcgcc      660
W--> 144      aaaagcgagc aagtctaccc ccctccgacg ggggcaggga caaactcanc cataaacaat      720
145      tgcggggggc ggtga
147 <210> SEQ ID NO: 10
148 <211> LENGTH: 267
149 <212> TYPE: DNA
150 <213> ORGANISM: Staphylococcus epidermidis
151 <400> SEQUENCE: 10

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## RAW SEQUENCE LISTING

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Input Set : N:\Cr4\10242002\J092411.raw

Output Set: N:\CRF4\10292002\J092411A.raw

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152      ggcgaagcag ttgctgcagg tgctcaagct ggacgcggat gcgggggttg ttgtcggcgg      60
153      ggatgccaaag gcgttgaagg cgtttattgc ggcgattgcc cagcatcggg tctgggaacg      120
154      ggagcctatg gccaaggcgg ttccggctta agtcattggg tgtttgatag ggcgccatcg      180
155      cgggcaagtc gaatcgtcgc actgcccgcg attggcttca gtcggcttta cgcggaatca      240
156      acacaacctg cgccggaata tgctga                                     267
158 <210> SEQ ID NO: 11
159 <211> LENGTH: 237
160 <212> TYPE: DNA
161 <213> ORGANISM: Staphylococcus epidermidis
162 <400> SEQUENCE: 11
163      agacggatTTT gcaaatcgca ggTTTggaaa aaaccaggcg tcggtgatga aaagccgtac      60
164      atcagcgTcg caatttcaga acgcacagtg gggacaaaaa gcacctctgg ctctgatgaa      120
165      cagcctgcac aatcgTcgTc atcgcttca agcgaatccc attcgTcaca acaggcacat      180
166      cagcctcaac cccaacagga tcaacaccca agcggagtag caggcttcaa tttttga      237
168 <210> SEQ ID NO: 12
169 <211> LENGTH: 324
170 <212> TYPE: DNA
171 <213> ORGANISM: Staphylococcus epidermidis
172 <400> SEQUENCE: 12
173      aaaaTgaatt tagaaaactt aacaactgaa cgtaaaaaatg aaaatacaat gggcttaaat      60
174      gagatgagtg tcaaagaagc tttacaaaaa atgaatcaag aagacaaaaa agttgcaatg      120
175      gcagtgggtc aagaattagc agccattgaa ccagtggtag aagccatcat caaaagcttc      180
176      aatcaaggcg gccgcttgat ctacatgggc gctggtacaa gtggtcgggt aggtgtctta      240
177      aatgcagccg aatgcgtacc aacttttggc gtcaagccaa agatggttca aggccccatc      300
178      cgctggtggg ccaaaaacca ttga                                     324
180 <210> SEQ ID NO: 13
181 <211> LENGTH: 888
182 <212> TYPE: DNA
183 <213> ORGANISM: Staphylococcus epidermidis
184 <220> FEATURE:
185 <221> NAME/KEY: unsure
186 <222> LOCATION: (505)
187 <223> OTHER INFORMATION: Identity of nucleotide at the above locations are unknown.
188 <400> SEQUENCE: 13
189      cctcggttta gattcgggtc gagtgcacct ttaatcgagt tgggcgtaac tggccttcgg      60
190      atggactacg gcattacgat agaacaaatg gtcctatgctt cacataagat tgatatagga      120
191      ttgaatgcta gtaccattac actggaagaa gtggctgagt taaaggctca tcaagcggac      180
192      ttttctcgct tagaagcttg gcataattat tatccaagac ctgaaaccgg cattggaaca      240
193      acatttttta atgaaaagaa ccgctggctt aaagaattag gcttacaagt ttttactttt      300
194      gtgccaggag atgggcaaac aagaggccca atttttgctg gtttaccacac attagaaaaa      360
195      catcgggggc aaaatccttt cgccgctgcc gttggtttga tggtgatcc ttatgtcgat      420
196      gctgtttata ttggtgatcc tacaattagt gagcgaacca tggtcgaatt tggttattat      480
W--> 197      caccaaacca atcaatttct gttanaagta gcacctagcg agagccgcta tttgaagcga      540
198      atacttggga ctcatacca tCGtttagat gctgcaagag atgttttgcg aagtgaatta      600
199      tcaaaaacga gtgaaatgtt cagaaaagat gaaattgcaa cgattgagtc agagcagact      660
200      gaagcacgTc cagtgggaac cgtaacgatt gataatgaaa aatatggtcg ctatatggga      720
201      gaaattcaag tcacacttgt ggaacttgccg aaagatgaaa aagtcaatac gattacacga      780
202      attattgaaa aagatcaaac gatattgccg ttaatcaagg caggcaatca atttacgcta      840
203      gtcacggaag gaacgataga aaatgaattt agaaaactta acaactga                                     888

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TIME: 18:58:38

Input Set : N:\Cr4\10242002\J092411.raw

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205 <210> SEQ ID NO: 14
206 <211> LENGTH: 228
207 <212> TYPE: DNA
208 <213> ORGANISM: Staphylococcus epidermidis
209 <400> SEQUENCE: 14
210      cttgccacaa cggcagcaat ggcgcgccgt gacacagtgc ttccagttgg gcgaagaacc      60
211      gtgccatgtc ttctaggttg ctcgggccgt gatcttcacg cagcagcccg gccaggccct      120
212      gttgcagcat ttgccgccag tgctgcagtt gctcggaaca gtcggccggt gcccgcctgg      180
213      ccagatcgtc atcgggcagc ggggcgatca ccagcagttg cgggctga      228
215 <210> SEQ ID NO: 15
216 <211> LENGTH: 186
217 <212> TYPE: DNA
218 <213> ORGANISM: Staphylococcus epidermidis
219 <400> SEQUENCE: 15
220      cccggcattg cgcagcctgc tcaagagctg cgacaagggtg ttcaagcgcc tgcaaaccaca      60
221      gggcatcgaa gggatcaaca gcccggcacc ggaccagttg ctcaagagcc tgctgtttta      120
222      tatcgccaaa gtcacccggc cgacgcgcgc catgcaaagc ctcaaggaac gctacggcct      180
223      ggatga      186
225 <210> SEQ ID NO: 16
226 <211> LENGTH: 1368
227 <212> TYPE: DNA
228 <213> ORGANISM: Staphylococcus epidermidis
229 <400> SEQUENCE: 16
230      gaagaaaaag caagagagac gaagagagaa aaggaaaggg agaggaacca gccagaaaaga      60
231      gaaccagaaa aaaggacaag aaagaagaga ggaaaccgag aagaacagat gacgaaaacg      120
232      gaaagaagaa ccgggcagag cgaccaagag cgagacaagg gaaccagaga agaggagaga      180
233      agagaaaaaa caagaaggaa aaaagcgggg aagagaaaaga gggcgaagaa agcaaaagag      240
234      gaaaaaagaa cgaaaggcca aaaaagagaa gaggggagag agcaggcagg gggggaggcc      300
235      cccaaaatgg gattctcact tttaaccca ttcaagaagg gagtctgatt ggttgacggg      360
236      cacgaaaacg tcgccctaga atgggtcaag ggcgagatcg cggacaccgt gaagcaggcc      420
237      cgtgcggcaa tggacgcctt tgcggacgac gccagcgagc aagccctcgc gcagtgcgtg      480
238      gagggcattc atcaggtcca cggcgccctg cagatggtcg agttctacgg cgcggcactg      540
239      ctgcgcgaag aaatggagca cctggcccag gccatgcaag ccgggcacgt cagccagcgc      600
240      gaagaaggca tccgcctgct gcaacaggcc ctcgggcaac tgccgttgta cctggaccgt      660
241      gtgcacagcg cccggcgaga cctgcccctg gtagtgttgc cgctgctcaa cgacctgcgc      720
242      agcgtgcacg gcaaaagcct gctctcgga accagcctgt tcagcccaga actgctggtg      780
243      atcgccccgc tgcccgatga cgatctggcc cagcgggcac cggccgactt tgccgagcaa      840
244      ctgcagcact ggcggcaaat gctgcaacag ggctggccg ggctgctgcg tgaagatcac      900
245      ggcccagagc acctagaaga catggcacgg ttcttcgccc aactggaagc actgtgtcac      960
246      ggcgcgccat tgctgccgtt gtggcaagtc acctcggcgc tggccgaagg catgctcact      1020
247      ggcgtgatcg ccaatagccc ggcattgcgc agcctgctca agagctgcga caaggtgttc      1080
248      aagcgcctgc aaaccaggg catcgaagg atcaacagcc cggcacccga ccagttgtct      1140
249      aagagcctgc tgttttatat cgccaaagtc acccgccga cgccgcgcac gcaaagcctc      1200
250      aaggaaacgt acggcctgga tgaagccttg cccgacagca ccgtggctga tgccgagcgc      1260
251      gcgcgcctgg ccgggcccga ccgcaatgcc atgggctcgg tgctcggcgc gttgtgtgag      1320
252      gagttggtgc gggtaagga acgctgggac ctgtttgtgc gcgactct      1368
254 <210> SEQ ID NO: 17
255 <211> LENGTH: 444
256 <212> TYPE: DNA

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos. 38,46,66,147,161  
Seq#:5; N Pos. 23,37,118,138,146,189,233  
Seq#:6; N Pos. 11,92,112,120,163,207  
Seq#:8; N Pos. 2,147  
Seq#:9; N Pos. 341,486,501,513,709  
Seq#:13; N Pos. 505  
Seq#:24; N Pos. 311  
Seq#:26; N Pos. 11  
Seq#:28; N Pos. 45,128  
Seq#:29; N Pos. 6,287,366,399  
Seq#:30; N Pos. 471  
Seq#:31; N Pos. 46,340,373,452  
Seq#:36; N Pos. 367  
Seq#:48; N Pos. 1284  
Seq#:183; N Pos. 157  
Seq#:186; N Pos. 7  
Seq#:193; N Pos. 1071  
Seq#:273; N Pos. 174  
Seq#:281; N Pos. 620  
Seq#:585; N Pos. 6  
Seq#:782; N Pos. 118  
Seq#:840; N Pos. 298  
Seq#:850; N Pos. 32  
Seq#:863; N Pos. 326,404,405,428  
Seq#:988; N Pos. 552,600  
Seq#:1035; N Pos. 25,28,46,60  
Seq#:1068; N Pos. 160,174,192,195  
Seq#:1077; N Pos. 21,23,52,53  
Seq#:1232; N Pos. 16  
Seq#:1277; N Pos. 20,22,32  
Seq#:1405; N Pos. 849  
Seq#:1441; N Pos. 1060  
Seq#:1710; N Pos. 52  
Seq#:1740; N Pos. 16,17  
Seq#:1798; N Pos. 124  
Seq#:1867; N Pos. 110  
Seq#:1964; N Pos. 32  
Seq#:2134; N Pos. 502  
Seq#:2211; N Pos. 498,499,500,501,502,503,504,505,506,507,508,509,510,511  
Seq#:2211; N Pos. 512,513,514,515,516,517,518,519  
Seq#:2289; N Pos. 616  
Seq#:2412; N Pos. 12,13,14,15,16,27,36  
Seq#:2648; N Pos. 22  
Seq#:2725; N Pos. 40

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Seq#:2749; N Pos. 174  
Seq#:2763; N Pos. 57  
Seq#:2799; N Pos. 273  
Seq#:2823; N Pos. 106  
Seq#:2841; Xaa Pos. 13,16,22,49,54  
Seq#:2846; Xaa Pos. 114,162,167,171,237  
Seq#:2850; Xaa Pos. 169  
Seq#:2861; Xaa Pos. 104  
Seq#:2866; Xaa Pos. 2,96,122,133  
Seq#:2867; Xaa Pos. 157  
Seq#:3118; Xaa Pos. 207  
Seq#:3700; Xaa Pos. 109,135,143  
Seq#:3905; Xaa Pos. 54,65  
Seq#:4069; Xaa Pos. 6  
Seq#:4547; Xaa Pos. 18  
Seq#:4635; Xaa Pos. 42  
Seq#:5048; Xaa Pos. 167,168,169,170,171,172,173  
Seq#:5126; Xaa Pos. 206

**Invalid Line Length:**

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 2  
Seq#:4; Line(s) 57  
Seq#:5; Line(s) 71  
Seq#:6; Line(s) 91  
Seq#:8; Line(s) 116  
Seq#:9; Line(s) 131  
Seq#:13; Line(s) 187  
Seq#:24; Line(s) 344  
Seq#:26; Line(s) 379  
Seq#:28; Line(s) 415  
Seq#:29; Line(s) 429  
Seq#:30; Line(s) 449  
Seq#:31; Line(s) 468  
Seq#:36; Line(s) 561  
Seq#:48; Line(s) 732  
Seq#:183; Line(s) 3137  
Seq#:186; Line(s) 3196  
Seq#:193; Line(s) 3286  
Seq#:273; Line(s) 4698  
Seq#:281; Line(s) 4862  
Seq#:322; Line(s) 5810,5811,5812,5813,5814,5815,5816,5817,5818,5819,5820  
Seq#:322; Line(s) 5821,5822,5823,5824,5825,5826,5827,5828,5829,5830,5831  
Seq#:322; Line(s) 5832,5833,5834,5835,5836,5837,5838,5839,5840,5841,5842  
Seq#:322; Line(s) 5843,5844,5845,5846,5847,5848,5849,5850,5851,5852,5853  
Seq#:322; Line(s) 5854,5855,5856,5857,5858,5859,5860,5861,5862,5863,5864  
Seq#:322; Line(s) 5865,5866,5867,5868,5869,5870,5871,5872,5873,5874,5875